ENVISION®
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User's Manual

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Fu. Before operating the monitor, please read this manual thoroughly. This manual should be retained for future reference.

FCC Class B Radio Frequency Interference Statement
WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

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PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable cart, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightening storm or when it will not be used for long period of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor by yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

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SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image when the same image has been displayed for a long time. The monitor will slowly recover from this.
- When the screen becomes black or flashing, or cannot illuminate any more, contact your dealer or service center to replace parts. Don't repair the screen by yourself!

BEFORE YOU OPERATE THE MONITOR

FEATURES

- 18.5" (47.0cm) TFT Color LCD Monitor
- 16:9 Widescreen
- Crisp, Clear Display for Windows
- *Recommened Resolutions: 1366 X 768@60Hz*
- EPA ENERGY STAR®
- Ergonomic Design
- Space Saving, Compact Case Design

CHECKING THE CONTENTS OF THE PACKAGE

The product package should include the following items:

1. LCD Monitor
2. Owner's Manual
3. Power Cord
4. Signal Cable
5. Base

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INSTALLATION INSTRUCTIONS

SWIVEL BASE

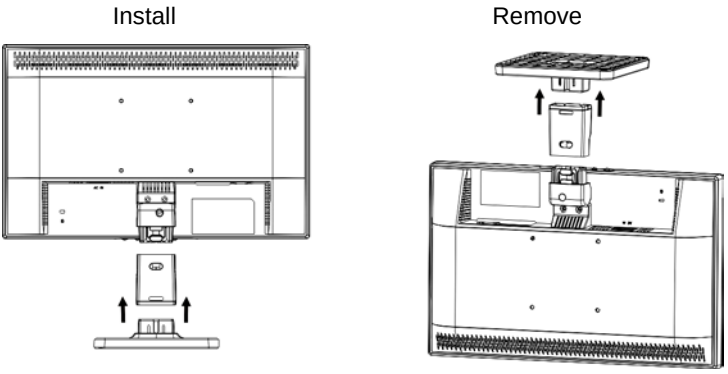

Figure 1 Installing and Removing the Swivel Base

POWER CORD

Power Source:

1. Make sure that the power cord is the correct type required in your area.
2. This LCD monitor has an External universal power supply that allows operation in either 100/120V AC or 220/240V AC voltage area (No user adjustment is required.)
3. Connect the AC-power cord one end to your LCD monitor's AC-input socket , the other end to wall-outlet .

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CONTROLS AND CONNECTORS

VIDEO CABLE

Connecting the D-Sub Cable: Connect one end of the 15-pin D-Sub cable to the back of the monitor and connect the other end to the computer's D-Sub port.

Connecting the Power Cord: Connect the AC-power cord one end to your LCD monitor's AC-input socket , the other end to wall-outlet .

Caution: *If the AC outlet is not grounded (with three holes), install the proper grounding adapter (not supplied).*

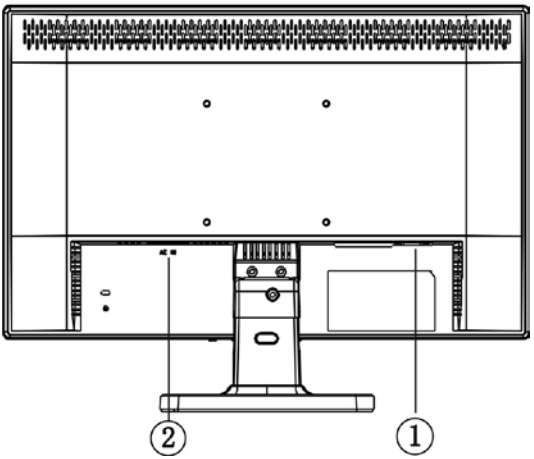

Figure 2 Connecting Cables

1.	Signal Cable
2.	Power Cord

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ADJUSTING THE VIEWING ANGLE

- For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.
- Hold the stand so you do not topple the monitor when you change the monitor's angle.
- You are able to adjust the monitor's angle from -5° to 20°.

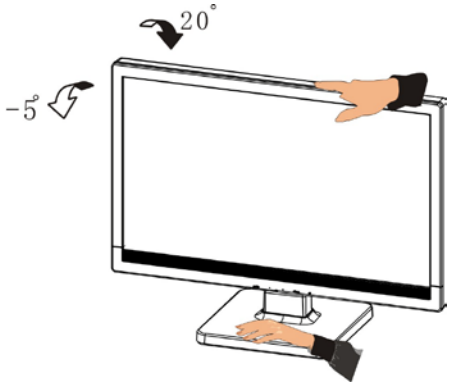

Figure 3

NOTES

- Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.
- Careful attention is required not to catch your fingers or hands when you change the angle.

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OPERATING INSTRUCTIONS

GENERAL INSTRUCTIONS

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor (See Figure 4). By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.

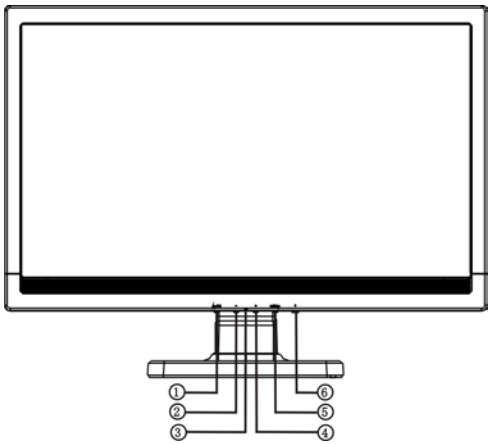

Figure 4 External Control Button

EXTERNAL CONTROLS

1.	Auto Adjust Key	2.	ECO Adjust Key/DCR shortcut key
3.	LED	4.	16:9/4:3 shortcut key
5.	MENU	6.	Power Key

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FRONT PANEL CONTROL

- **Power Button:**
  Press this button to switch ON/OFF of monitor's power.
- **MENU / ENTER :**
  Activate OSD menu when OSD is OFF or function adjust .
- **ECO Adjust Key:**
  Press the key enter into the ECO modet / DCR modet or function adjust.
- **16:9/4:3 shortcut key:**
  Press the key to Adjust 16:9/4:3 or function adjust.
- **Power Indicator:**
  Green — Power On mode.
  Orange — Off mode.
- **Auto Adjust button / Exit:**
  1. When OSD menu is in active status, this button will act as EXIT-KEY (EXIT OSD menu).
  2. When OSD menu is in off status, press this button over 2 seconds to activate the Auto Adjustment function.
     The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus.

OSD Lock Function: To lock the OSD, press and hold the MENU button while the monitor is off and then press power button to turn the monitor on. To un-lock the OSD - press and hold the MENU button while the monitor is off and then press power button to turn the monitor on.

NOTES

- Do not install the monitor in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, or excessive dust or mechanical vibration or shock.
- Save the original shipping carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- For maximum protection, repackage your monitor as it was originally packed at the factory.
- To keep the monitor looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner, benzene, or abrasive cleaners, since these will damage the cabinet. As a safety precaution, always unplug the monitor before cleaning it.
- do not scratch the screen with hard things, It may cause permanent damage.
- Don't leak liquid into monitor which will result in the damage of component.

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HOW TO ADJUST A SETTING

1. Press the MENU-button to activate the OSD window.
2. Press ▲ or ▼ to navigate through the functions. Once the desired function is highlighted, press the MENU-button to activate it. If the function selected has a sub-menu, press ▲ or ▼ again to navigate through the sub-menu functions. Once the desired function is highlighted, press MENU-button to activate it.
3. Press ▲or ▼ to change the settings of the selected function.
4. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-3.

Figure 5 The OSD Message

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ADJUSTING THE PICTURE

The descriptions for function control LEDS

Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description
Luminance		Contrast		Contrast from Digital-register
		Brightness		Backlight Adjustment
		Eco mode	Standard	Standard Mode
			Text	Text Mode
			Internet	Internet Mode
			Game	Game Mode
			Movie	Movie Mode
			Sports	Sports Mode
		Gamma	Gamma1	Adjust to Gamma 1.
			Gamma2	Adjust to Gamma 2.
			Gamma3	Adjust to Gamma 3.
		DCR	On/ Off	Disable or Enable dynamic contrast ratio
Image Setup		Clock		Adjust picture Clock to reduce Vertical-Line noise
		Phase		Adjust Picture Phase to reduce Horizontal-Line noise
		H.Position		Adjust the horizontal position of the picture.
		V.Position		Adjust the verticalposition of the picture
Color Temp		Warm		Recall Warm Color Temperature from EEPROM
		Normal		Recall Normal Color Temperature from EEPROM
		Cool		Recall Cool Color Temperature from EEPROM
		sRGB		Recall SRGB Color Temperature from EEPROM
		User /Red		Red Gain from Digital-register
		User /Green		Green Gain Digital-register
		User /Blue		Blue Gain from Digital-register

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Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description
Color Boost		Full Enhance	On/Off	Disable or Enable Full Enhance Mode
		Nature Skin	On/Off	Disable or Enable Nature Skin Mode
		Green Field	On/Off	Disable or Enable Green Field Mode
		Sky-blue	On/Off	Disable or Enable Sky-blue Mode
		AutoDetect	On/Off	Disable or Enable AutoDetect Mode
		Demo	On/Off	Disable or Enable Demo
Picture Boost		Frame Size		Adjust Frame Size
		Brightness		Adjust Frame Brightness
		Contrast		Adjust Frame Contrast
		H. position		Adjust Frame horizontal Position
		V.position		Adjust Frame vertical Position
		Bright Frame		Disable or Enable Bright Frame

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Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description
OSD Setup		H.Position		Adjust the horizontal position of OSD
		V.Position		Adjust the vertical position of OSD
		Timeout		Adjust the OSD Timeout
		Transparence		Adjust the transparence of OSD
		Language		Select the OSD language
Extra		Input Select		D-SUB
		Auto Config	yes or no	Auto adjust the picture to default
		Image Ratio	wide or 4:3	Select wide or 4:3 format for display
		DDC/CI	yes or no	Turn ON/OFF DDC-CI Support
		Information		Show the information of the main image and sub-image source
Reset		Reset	yes or no	Reset the menu to default
Exit				Exit the main OSD

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PLUG AND PLAY

Plug & Play DDC 2B Feature

This monitor is equipped with VESA DDC 2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.
The DDC 2B is a bidirectional data channel based on the I²C protocol. The host can request EDID information over the DDC 2B channel.

THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

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TECHNICAL SUPPORT (FAQ)

Problem & Question	Possible Solution
Power LED is not on	*Check if the Power Switch is in the ON position *Power Cord should be connected
No Plug & Play	*Check if the PC system is Plug & Play compatible *Check if the Video Card is Plug & Play compatible *Check if the D-15 plug pin of Video Cable is bent
Picture is fuzzy	*Adjust the Contrast and Brightness Controls.
Picture bounces or a wave pattern is present in the picture	*Move electrical devices that may cause electrical interference.
The power LED is ON but there's no video or no picture.	*Computer Power Switch should be in the ON position. *Computer Video Card should be snugly seated in its slot. *Make sure monitor's video cable is properly connected to the computer. *Inspect monitor's video cable and make sure none of the pins are bent. *Make sure computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.
Missing one of the primary colors (RED, GREEN, or BLUE)	*Inspect the monitor's video cable and make sure that none of the pins are bent.
Screen image is not centered or sized properly.	*Adjust pixel frequency (CLOCK) and FOCUS or press hot-key (AUTO).
Picture has color defects (white does not look white)	*Adjust RGB color or select color temperature.
Horizontal or vertical disturbances on the screen	*Use win 95/98 shut-down mode Adjust CLOCK and FOCUS or perform hot-key (AUTO-key).

CLOCK (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the picture has not correct width.

FOCUS adjusts the phase of the pixel clock signal. With a wrong phase adjustment the picture has horizontal disturbances in light picture.

For FOCUS and CLOCK adjustment use "dot-pattern" or win 95/98 shut-down mode pattern.

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ERROR MESSAGE & POSSIBLE SOLUTION

CABLE NOT CONNECTED :

1. Check that the signal-cable is properly connected , If the connector is loose, tighten the connector's screws.
2. Check the signal-cable's connection pins for damage.

INPUT NOT SUPPORT :

Your computer has been set to unsuitable display mode ,set the computer to display mode given in the following table.

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APPENDIX

SPECIFICATIONS

LCD Panel	Driving system	18.5” TFT Color LCD
	Viewable Image Size	470mm diagonal
	Pixel pitch	0.3mm(H) × 0.3mm(V)
Input	Video	R,G,B Analog Interface
	Separate Sync.	H/V TTL
	H-Frequency	31kHz – 80kHz
	V-Frequency	55-75Hz
Dot Clock		85.5MHz
Max. Resolution		1366 × 768 @60Hz
Plug & Play		VESA DDC 2B™
EPA ENERGY STAR®	ON Mode	≤25W
	OFF Mode	≤1W
Input Connector		15-pin D-Sub
Input Video Signal		Analog:0.7Vp-p(standard), 75 OHM, Positive
Maximum Screen Size		Horizontal : 409.8mm Vertical : 230.4mm
Power Source		100~240VAC,50~60Hz
Environmental Considerations		Operating Temp: 5° to 40°C Storage Temp.: -20° to 60°C Operating Humidity : 10% to 85%
Dimension		442×342×190 (W ×H×D)mm
Weight (N. W.)		4.05kg Unit (net)

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External Controls:	Switch	• Auto Adjust Key • ECO Adjust Key/DCR shortcut key • 16:9/4:3 shortcut key • Power Button • MENU
	Functions	• Luminance • Image Setup • Color Temp • Color Boost • Picture Boost • OSD Setup • Extra • Reset • Exit
Power Consumption (Maximum)		25 Watts
Regulatory Compliance		CE

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Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY	VERTICAL FREQUENCY
VGA	640 x 480 @60Hz	31.469	59.940
VGA	640 x 480 @67Hz	35.000	66.667
VGA	640 x 480 @72Hz	37.861	72.809
VGA	640 x 480 @75Hz	37.500	75.000
Dos-mode	720 x 400 @70Hz	31.469	70.087
SVGA	800 x 600 @56Hz	35.156	56.250
SVGA	800 x 600 @60Hz	37.879	60.317
SVGA	800 x 600 @72Hz	48.077	72.188
SVGA	800 x 600 @75Hz	46.875	75.000
Mac-mode	832 x 624 @75Hz	49.725	74.500
XGA	1024 x 768 @60Hz	48.363	60.004
XGA	1024 x 768 @70Hz	56.476	70.069
XGA	1024 x 768 @72Hz	57.500	72.074
XGA	1024 x 768 @75Hz	60.023	75.029
WXGA	1360 x 768 @60Hz	47.712	60.015
WXGA	1366 x 768 @60Hz	47.765	59.856

CONNECTOR PIN ASSIGNMENT

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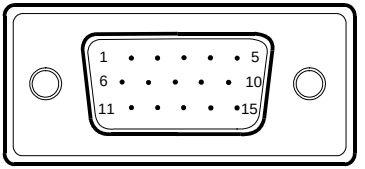

15 - Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	Red	9.	+5V
2.	Green	10.	Detect Cable
3.	Blue	11.	Ground
4.	Ground	12.	DDC-Serial Data
5.	Ground	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		

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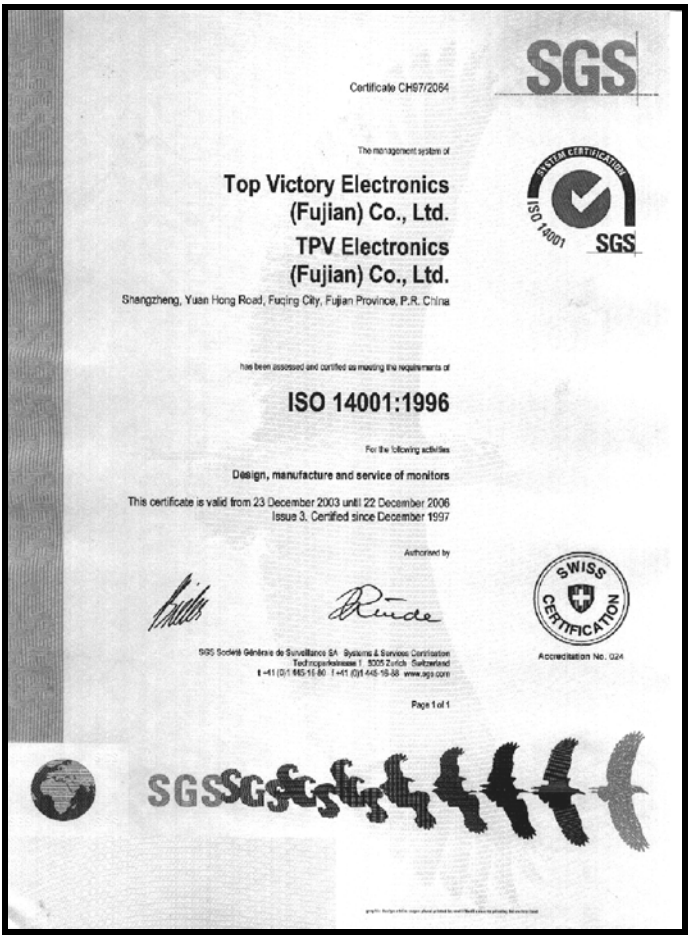
ISO 14001 Certification

ISO 14001 certification is the pattern of certification of the environmental management system, is the core standard of ISO14000 series of standard on environmental management.



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The management system of

Top Victory Electronics (Fujian) Co., Ltd.

TPV Electronics (Fujian) Co., Ltd.

Shangzheng, Yuan Hong Road, Fuqing City, Fujian Province, P.R. China

has been assessed and certified as meeting the requirements of

ISO 14001:1996

For the following activities

Design, manufacture and service of monitors

This certificate is valid from 23 December 2003 until 22 December 2006
Issue 3, Certified since December 1997

Authorized by

SYSTEM CERTIFICATION ISO 14001 SGS

SWISS CERTIFICATION

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